

Entity and Sentiment Analysis with the Natural Language API

2019.02.11.

with **Qwiklabs** on **Google Cloud Platform Console**

Steps

1. <Sign In>
2. <Activate Google Cloud Shell>
3. `gcloud auth list(activate account)`
4. `gcloud config list project(project ID)`
5. <Create API key-Create credentials: API key>
6. `export API_KEY=[MY_API_KEY]`
7. <Make an Entity Analysis Request>
8. `touch request.json`

9. vim request.json

1) i(insert mode)

2) {

"document":{

"type":"PLAIN_TEXT",

target of analysts "content": "Joanne Rowling, who writes under the pen names J. K. Rowling and Robert Galbraith, is a British novelist and screenwriter who wrote the Harry Potter fantasy series."

},

"encodingType":"UTF8"

}

Plain text
HTML

10. Call the Natural Language API

11. <curl Command>

```
curl "https://language.googleapis.com/v1/documents:analyzeEntities?key=${API_KEY}" -s -X POST -H "Content-Type: application/json" --data-binary @request.json
```

Request

about Entities analysis Service

Environment variable

Request message

Analyzing entity sentiment

1. Update request.json

2. vim request.json

1) I (insert)

```
{  
    "document":{  
        "type":"PLAIN_TEXT",  
        "content":"I liked the sushi but the service was terrible."  
    },  
    "encodingType": "UTF8"  
}
```

3) (esc) - :wq

2. <curl command>

curl

"https://language.googleapis.com/v1/documents:analyzeEntitySentiment?key=\${API_KEY}" # -s -X POST -H "Content-Type: application/json" --data-binary @request.json

Entity Sentiment Analysis.

Analyzing syntax and parts of speech

1. Replace request.json

2. vim request.json

1) i(insert)

2) { "document":{ "type":"PLAIN_TEXT", "content": "Joanne Rowling
is a British novelist, screenwriter and film producer." },
"encodingType": "UTF8" }

3) (esc) - :wq

3. <curl command>

curl

"https://language.googleapis.com/v1/documents:analyzeSyntax?key=
\${API_KEY}" # -s -X POST -H "Content-Type: application/json" --
data-binary @request.json

Multilingual natural language processing

1. Modify request.json
2. vim request.json
 - 1) i(insert)
 - 2) { "document":{ "type":"PLAIN_TEXT", "content":"日本のグーグルの
オフィスは、東京の六本木ヒルズにあります" } }
 - 3) (esc) - :wq
3. <curl command>
curl
"https://language.googleapis.com/v1/documents:analyzeEntities?key
=\${API_KEY}" -w -s -X POST -H "Content-Type: application/json" --
data-binary @request.json

Summary

- Creating a Natural Language API request and calling the API with curl
- Extracting entities and running sentiment analysis on text with the Natural Language API
- Performing linguistic analysis on text with the Natural Language API
- Creating a Natural Language API request in a different language